Scope

Palomar AmateurRadio Club Inc.
Box 73, Vista, CA 92085-0073
Dec. ****** **1996** ****** **60 Years Old**
Dues $12, Volume XXII, **Number 12**
Coffee 7pm, Mtg. 7:30pm @ **Carlsbad Safety Center**, Palomar Airport Rd. to N. on Camino Real (S11), east on Faraday .25mi, left to **CSC**.
++++++++++ **Talk-in 146.730** ++++++++++
4-Patches 147.075+, 147.130+, 449.425-
Pkt, ATV, 220, PALBBS & **w6nwg@amsat.org**

NEWS WORTHY *(see page)*

2-AGOGO;Board;Trea$; Swap;Stores
3-Election KB6MCU/N2DCA; Pres.
4-Editor; Computer Dust
5-For Sale; VE
6-Ham Count; Oscar Rivera; Top 20
7- Experts; This and That
8-Contests; New Calls; Ink; 73; Fire
9-Patch; Projects; Work Parties
10- Packet; Modem; Juno; Polluters
11- **ARES application**; 147.075 MCW; Kenwood FTP
12-Application, Officers, Board, etc.

December Meeting

W6GIC@amsat.org **Sybil Allbright**

The program for the first Wednesday in December will be our Christmas party where we traditionally have our club election of new officers and display tables by local vendors of radio related items.

Club meetings **start at 7:30pm** but many come at **7pm** to talk to friends, sample goodies & coffee, join in a seminar, get a good seat, or be first to see small items of equipment being brought in for the club's sale table where the club takes 10% of the selling price.

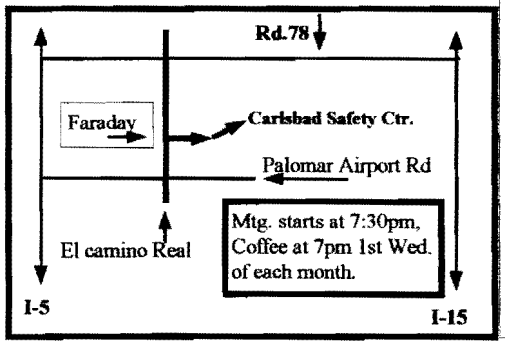
Check 146.730(-) for where some members are eating dinner before the meeting.

Please come early and help Ellen-**N6UWW**'s crew set up tables and chairs ...and **STAY** a few minutes to help put them away. Your help is greatly appreciated!

Upcoming PARC meetings:

Send program suggestions to me at the club's POBox or my E-mail.

(Jan 1st) Earl Leeder-**KE6UFO** hypnotist. (*great callsign.He can help you copy and pass the VE code tests! -Ed*)
(Feb 5th) Open (any ideas?)
(Mar 5th) Open (any ideas?)



KI6JM Equip. Donation

Before Jack died he indicated that he wanted PARC to have all of his radio equipment. The items donated were:
Kenwood TM-251A 2m FM rig
ICOM IC-735 HF rig with Astron **RS-20A** 20amp 12vdc pwr Sup
Kantronics Packet Communicator 3, Kenwood **TM-221A** 2m FM rig Dumb **Terminal** + keyboard for Pkt, **RS-20A** 20a 12vdc pwrSup
Antenna **Rotator**, 3el Triband **Beam,** 6el 2 meter **Beam,** J-pole 2m **antenna** and assorted small items

Since Jack was quite interested in supporting emergency communications, the Board has decided to keep the equipment and use it for:
a) emergency use in trailer/camper
b) weekend use in trailer/camper for those having antenna restrictions
c) contests and Field Day

We are looking into attaching small plaques to each item. Thanks to **KI6JM and family**!

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Field Day - 2nd in 5A! and 8th USA all classes

PARC again mounted a near winning effort in the 5A ARRL Emergency Field Day Exercise held each June placing 2nd in the 5A classification. More information next month.

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Last Club Meeting

We were treated to a varied program of overheads, ATV video, and comments on equipment design above 1GHz by Ray Clancey-**N6RE** who had many humorous comments. The ATV shots from the tower of the LA basin were fantastic. (*Wonder what SDCo. looks like from Palomar Mt.? -Ed*)

..and thanks to Ellen-**N6UWW** and to Eric-**K6AZ** for setting up the chairs.

In attendance were 13 guests and 95 members for a total of **108**. You receive one (1) participation point for signing in at each meeting and some of you are forgetting to do so!

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Dec. '96 SCOPE

04 Club Mtg. Carlsbad Safety Ctr, 7:30pm
CLUB ELECTION
CHRISTMAS MEETING
07 Santee **Swap Meet** *(drive in theater)*
12 PARC **BoardMtg.** WB6PKK QTH, 7pm
14 PARC **VE Testing** CarlsbadSaf.Ctr,10am
Jan1st meeting will be Jan 8th!!

January Mtg. on 8th

Our January meeting will be the 2nd Wednesday since the 1st Wednesday (Jan.1st) is New Years Day.

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PARC Election

See page 3 for additional nominations from the floor and election information.

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Many Thanks To:

Goodie/Coffee Table: On the coffee table were Art-**KB6YHZ**, and Bernice-**N6WQR**. Anita was under the weather.

Those bringing in goodies: Bob-**W7DHI**, Bill-**KM6PY**, Paul-**N6ISC**,

Barbara-**KD6ECD**, Bernice-**N6WQR**, George-**W9STN**, Norm-**N6QQF**, Jerry-**N6TCB** and Bob-**AK6R**.

And a big thanks to all those who helped set up tables and take them down. Your help was greatly appreciated.

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Long AGOGO *(history)*

K6HAV / *KI6JM(SK)* / W9FQN

(12-95) ...Ron Wilhelmy, **WI6B**, resigns as W6NWG trustee and Mike Doyle, **AB6QT**, assumes the responsibility ..Juan-**KE6KNN** taking Christmas messages ..Jennifer Thieme, **KM6WG**, treasurer steps down ..attendance 102 at Nov mtg ..W6NWG 3rd in FD class 5A ..history of club membership ..$15,253 in bank ..Dora Tuttle-**KE7DR** SK ..list control operators ..new guy wires attached ..businesses invited to Dec mtg ..Young People's net started 146.730 ..PALNOD connection diagram ...

12-91) ...deviation clinic by Larry-KC6PEN (**AB6LY**), Art-**KC6UQH** & Mike-KC6KCQ (**AB6QT**) ..attendance Nov. 100 ..Elmer list ..$7,116 in the bank ..Stan-**W9FQN** steps down as president after seven years and club accomplishments listed and "thank you" ..Ralph-**K6HAV** and Pat-**N6INN** donate PO Box 73 to PARC (*for ever thanks* -Ed) ..lower 3rd autopatch center installed ..Stan-**W9FQN** & Jerry-**WB6FMT** programmed over 400 phone prefixes into the computer(s) ..147.13 and 449.425 still need to be connected to autopatch system ..Dennis-**N6KI** on winning #1 in 5A Field Day competition & #6 all classes in USA (*this is the first of three 1st places* -Ed) ..VE Exams are now at Carlsbad Safety Center ..Art Smith, **W6INI**, retires as ARRL SCM after 18 years ..story on Felix Ferranto-**N6IE** ..Guy Rowlett, **KB6AI**, SK ...

(12-86) ...Christmas mtg with Phil-**WF6L** providing music ..ARES Sunday morning net taken over by PARC after going "belly up" ..need $1000 to pay off repeater note ..finished 21st in 4A Field Day, 2nd in state, 2nd in SoCa, and 1st in San Diego ..VE at Joslyn Sr. Ctr in SM ..Joe-**WA1CSO** passes Advanced & moves to New England ..Phil Schutze-**K6ROR** ends 10-12 years as membership chairman, short stint as Editor ..George (Skip) Maynard-**K6RTD** takes over membership duties

..(see your editor for copies of newsletters)

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November Board Mtg

Minutes from the club secretary are abbreviated to "seconds" by the editor. See David Doan, KC6YSO, for the real thing!

Seconds (approved)(*discussed*)

11-21-96 W9FQN QTH; 7pm mtg started at 7:23pm with W6GIC VP presiding; attending were Board members W6GIC, KC6YSO, KB6NMK, W9FQN, WB6IQS, KC6WAN, WB6PKK and KC6UQH; KB6MCU ATV and KE6WOE for ARES ND; **minutes of last meeting**; KB6NMK's **treasurers report**; KC6UQH arrived 7:28pm; *insurance by W9FQN*; **candidates privileges**; *voting methods*; *W6GIC on Dec/Jan mtgs;* **Jan Mtg Jan 8th**; **clarification of Sponsored Net Policy**; **Non-Regular Group Users Policy**; **ARES ND request for use of 146.730**; **SANDARC delegates to abstain on TASMA/TMRCC voting**; **buying of PALBBS equipment from KJ6ZD @ $1,480**; **RACES BBS on 30 day test on 146.7**; *820 members*; **Americas United $5/mo phone charge**; **Swan rig to Red Flag**; KB6MCU to give two Novice/Tech classes next year; *next Board Mtg at W9FQN*; **adjourned at 10:07pm**.

Trea$urer $$,$$$.$$

Jo Ashley, KB6NMK@amsat.org 09/30/96

Certificate of Deposit	$ 2,406.46
Certificate of Deposit	$ 2,047.30
Certificate of Deposit	$ 2,040.97
Checking	$ 9,938.90
Cash & Bank AccountsTot.	$16,433.63
Future Year(s) Obligations	$ 9,066.50
Equity (available for Equip)	$ 7,367.13

Past totals: Nov. $15,681; Aug. $15,764; July $15,407; *May. $13,708; and Jan. $13,388.*

Club members are invited to look at the treasurer's detailed reports at Board meetings or at club meetings.

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Future Expenses $$$$

Upcoming expenses: Equipment PALBBS $1,500; DSP unit ~$245; Liability Insurance ~$1,300; Taxes ~$150; Scope printing ~$300/mo; Scope postage ~$70/mo; electricity ~$130/mo; phone(s) ~$50/mo; trailer jacks $250; climbing belt $100; etc.

Under consideration: 2m duplexer(s) ~$1,000ea; 6m repeater spare ~$200; 449.425 repeater spare ~$200; spare antennas $600; trailer and camper mods ~$300; portable small metal building mods and repair ~$100; small metal building at site mods ~$100; AC lightning filters ~$450; etc.

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Swap Meets

The Fontana Swap meet is 2nd Saturday of each month . The DeVry (Pomona) is the 3d of each month and of course the TRW is the last Saturday of each month.

Here in San Diego, the Santee Swap meet is the 1st Saturday of each month.

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Radio Stores/Services

There are many radio parts stores in the San Diego County area and we would like to list as many as possible.

Our beginning list starts with -

AB6LY Radio Repair - repair of all types of radio equipment. Located in Oceanside.

Antenna Specialties - radio system installations, antennas, towers, etc. See ad on page 5 of SCOPE.

Comer Communications - computer controlled transceiver(s).

GPS Display Kit - serial display for lat-long receivers. Pg.3. *j@harper.com* or 990.9046.

Ham Radio Outlet - Claremont Mesa. Radios, antennas, towers, books, etc. Pg.11.

Gateway Electronics, 9222 Chesapeake, SD 92123 From HRO go north on Kearny Villa Rd past Clairemont Mesa Blvd less than a mile make a right turn on Chesapeake. 1/4 mi East on No. side of road.

Industrial Liquidators - all types of surplus radio and mechanical parts in

bins. Located at 204 S Rancho Santa Fe, San Marcos and also at Convoy St. south of Clairemont Meas Blvd on the East side of the st.

NiCad Lady - supplies new and replacement ni-cad packs of all types. Pg.7. (909) 789-0830 or
nicdlady@deltanet.com

Palomar Engineers - Escondido. See ad page 5 of the SCOPE or any radio magazine for their multitude of amateur radio products. Call Jack Althouse, K6NY, at 747-3346.
75353.2175@compuserve.com

Radio Shack - Throughout the County. Check phone book for local address. Small parts, Ham Radios base/mobile and HT's, antennas, etc.

WB9COY VHF/UHF Antennas - all types of 2m, 70cm, etc. antennas. Contact Gene Swiech at 748-0708 or see his antennas at HRO.
eswiech@aol.com

If anyone has any additions or corrections to the above for the next running of this list, please contact your editor with the needed information.

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Editor

Stan Rohrer W9FQN@amsat.org

The SCOPE was mailed Tuesday at 2pm on the 29th and arrived at my QTH in Valley Center on the 31st.

During the club's 60th year the SCOPE has contained many items of club history and since we have not exhausted all of them, we will continue publishing items during our 61st year.

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December Election

The nominating committee nominated Sybil Albright, **W6GIC**, for VP which she declined at the November club meeting and she in turn nominated Bill Smith, **KB6MCU**, for Vice President.

Each candidate will receive 1.5 inches of SCOPE copy and 3 minutes of speaking time at the December club meeting before the election.

The following club members are running for VP in 1997:

FOR VICE PRESIDENT

Bill Smith, KB6MCU

I have been a member of PARC 7 years. For 3 years I have taught PARC Amateur Radio License classes (Nov/Tech/Gen/Adv). I video tape our general meetings when we have speakers and have contributed to the technical part of our club by building a backup repeater, donating the basic 147.13 repeater, and building the Amateur Radio Television repeater. For 2 years I have been the assistant to the Vice President.

Allen Maslowski, N2DCA

A vote for N2DCA means continued success for PARC. I have held the office of Vice President for four years for the 10-70 Repeater Assoc. in NJ 1982-1986 and have held the office of President for three years before moving to CA. With over 15 years as a general class HAM and past officer experience, and QTH in North Co., I am close to the board and repeaters. Please vote N2DCA.

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The secret ballot will contain only the names of **KB6MCU** and **N2DCA** since the other positions are not contested and will be declared elected at the end of the December club meeting. Elected officers take their positions immediately after the December club meeting.

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President's Wave Length

Art McBride, KC6UQH@amsat.org

It is hard to believe that I am about to complete my second term as President. I have tried to maintain a positive atmosphere while promoting building of Amateur Radio Equipment and increasing the use of our microwave bands. Harry, **WA6YOO**, our immediate Past President promoted DX-ing, his favorite activity in the Amateur Radio Service.

Over time The Presidents of PARC have presented a great diversity of activities by exposing our Membership to new projects and activities within the Amateur Radio Service. I was very fortunate to be President during our Sixtieth Anniversary last February. I was really humbled listening to the problems the Past Presidents faced and their unique solutions. I am proud to be one of those Presidents who have guided PARC through the past Sixty Years. I have agreed to serve for another year and after that it is time for someone else to chart the direction of PARC.

Sybil, **W6GIC**, declined to run as Vice President in a surprise announcement at the November General meeting. We now have two people running for the office of Vice President. Allen, **N2DCA**, nominated by Pat, **KC6VVT**, and Bill, **KB6MCU**, nominated by Sybil.

The rest of our current Board of Directors are running unopposed. Nominations were closed at the November General Meeting. The nominees will stand for election by the General Membership present at the December General Meeting. The new Board of Directors will assume their duties for the year 1997 at the close of the December Gen-

GPS Display Kit

- displays **lat-long, time**, number of satellites
- 2x16 LCD module with **LED backlight**
- connects to GPS receiver **serial output**
- recognizes **NMEA 2.0 GPGGA** lines
- computes and displays 6-digit **grid square**
- low current draw (**13mA** without backlight)
- complete kit with PC board for **$45**
- use as **output for** Trimble "mushroom" or as a remote display for handheld GPS unit.

For more **information**, or to **reserve** your kit, contact J. Goldberg, KD6PBH, via internet:
j@harper.com; voice: 619.990.9046

PARC BOARD

The board meets at 7pm on the Thursday of the week following the club meeting.

Pres: Art McBride, **KC6UQH**, 747.0253
VPres: Sybil Allbright, **W6GIC**, 278.4284
Sec: David Doan, **KC6YSO**, 286.4888
Treas: Jo Ashley, **KB6NMK**, 741-2560
RptT: John Kuivinen, **WB6IQS** 727.3876
SCOPE: Stan Rohrer, **W9FQN**,749.0276
MSh: Ralph Powel, **KC6WAN**, 727.7415
Mem: Mike Doyle, **AB6QT**, 742.1573
Mem: Marv Munster, **WB6PKK**, 747-2223

VE Program: Rusty, **AA6OM**, 747.5872
(2nd Sat.ea.mo. Carlsbad Safety Center)
ATV/Edu: Bill, **KB6MCU**, 582.2313
Editor: Stan Rohrer, **W9FQN**, 749.0276
30311 Cir R Ln, Valley Ctr CA 92082
W9FQN@amsat.org /W9FQN@PALBBS
PALBBS: Norbert, **KJ6ZD**, 630.5538
145.070 PktSimplex, 146.700-PktDuplex
WORLD WIDE WEB: Frank, **KE6WOE**
http://www.electriciti.com/parc

eral Meeting.

Frank, **KE6WOE**, set a new standard of excellence for Emergency Communications during the Harmony Grove Fire in late October. It was a pleasure for me to hear the professionalism Frank displayed as NCS for ARES. Frank remained on the air for almost all of the Emergency.

Paul, **N6ISC**, spent `a day and two nights at the San Marcos High School Evacuation Center. Larry, **WA6UTQ**, manned the EOC Station at the Carlsbad Safety Center during the Fire. Congratulations to Frank, Paul, Larry, and the forty plus PARC Members that helped with Disaster Communications during the fire.

Frank, **KE6WOE**, also organized the PARC booth at The ARRL Radio Roundup at Missile Park. Helping Frank were Ted, **W4OTP**, Chris, **KF6ELO**, Ted, **KF6BFI**, Barbara, **KA6FPS**, Gail, **KM6WF**, Larry, **KC6RED**, Ken, **N6ALA**, and yours truly.

Frank brought out five antennas, transceivers for 6, 2, 1.25 meters and 70 CM for both voice and packet. Frank's station ran off of two deep cycle batteries charged by a 9.5 Amp array of solar cells.

Ken brought out his 3.3 and 10 GHz ATV equipment and I brought my 10 GHz transverter. I had several QSO's with Ed, **W6OYJ**, and John, **WB6BKR**, through the new **N6IZW** repeater.

Frank and crew signed up several New Members, sold several hats, and signed up several ARES members. Ken and I enjoyed displaying our equipment and giving several Amateurs their first QSO on 10,368.130 Mhz USB.

Special thanks to RACES for 120 Volt power to run Ken's and my equipment.

Amateur Radio has brought many Amateur Radio Operators together to share their knowledge and encourage each other to reach new levels of achievement. Vince, **W7LHC**, now a Silent Key learned the watch making trade at an early age. He used this skill to support himself through college earning his degree in Engineering. I met Vince several years ago. At the time I had convinced myself that it was becoming very difficult to work on the new surface mount electronics that is popular now. I now needed bifocals to see what I could have seen with out glasses several years before. Vince showed me some machine screws that he had just made on his lathe. The remarkable thing about these screws is that they were smaller than a wire clipping from a transistor lead.

Now here is a fellow Amateur who is over Seventy Years Old making parts that requires a 10X magnifier to see! It became clear to me that surface mount parts are very big by comparison. Vince was the inspiration I needed to try a new technology.

As we get older it is easy to excuse ourselves from learning new things and this is where the friendship of Amateur Radio, that spans many generations, drives us all to new levels of achievement. I will always be in debt to Vince for showing me how to relearn a lesson that I had forgot.

My Statement: "Before it is over, this electronics will make watchmakers out of all of us!" is a reminder to that time in my life when I needed a push forward and received it.

Bob, **KA6NZL**, did a factory job in modifying a Motorola Micor Repeater for the 147.130. The new controller, and autopatch interface plug into the card cage in place of the original Motorola cards and he did this in a way that the original cards will still work in the repeater.

Bob, Stan, **W9FQN**, Joe, **KE4ZJH**, and I went to our repeater site on October 26th and installed the new 147.130 repeater. Bob plugged it in and it has been working flawlessly ever since. Joe took pictures and a Video tape of the PARC Site with Stan narrating.

Joe did an excellent job and the Site was dressed up in formal attire for winter with about 2 inches of freshly fallen snow. The new repeater is now able to operate on emergency power along with the rest of our voice repeaters and autopatch system. Stan worked on the Autopatch system and a good time was had by all. Thank-You Bob, Joe and Stan.

You will note that all of the courtesy beep/CW ID are a different pitch on the new controllers. This allows us to scan and tell which repeater we are listening to with out looking at the scanner.

Do your ARRL membership thru PARC who then gets to keep part of the money! See Jo-KB6NMK at meetings.

Once you get used to the different pitches (146.730 is the lowest, 147.130 the highest) you can answer a call on the correct repeater without looking at your radio. I hope this will encourage our members to scan and use all three 2 Meter voice repeaters. 73, and Happy Holidays **Art, KC6UQH**

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Computer Dust

New computers sold within six months are generally worth 50% of their original price. A $3,000 computer bought six years ago is worth about $100 now.

The American Computer Exchange matches buyers and sellers taking a 10-15% commission. Call AmCoEx at (800) 786-0717 or visit -

http://www.crl.com?~amcoex

They will also compute your tax deductible charitable donation.

Try the following for more information from other organizations-

ProductDonations@GiftsIn Kind.org.
http://www.wco.com/%7Edale/list.html
http://www.nt.thegroup.net/detwiler/

or E-mail **diana@detwiler.org** (La Jolla)

Of course, you might check with PARC before doing anything to see what the club's needs are.

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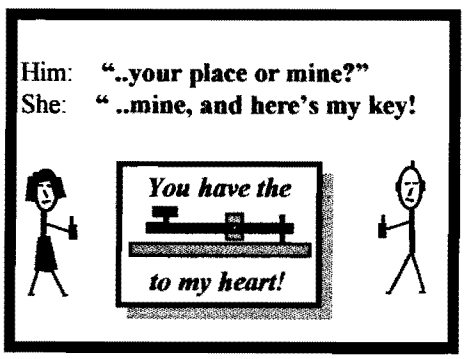

For Sail

W6NWG@amsat.org

*Phone or send ads to your editor before the **20th** of each month. Copy your ads after the form used here in. **Personal** equipment ads are **free** to members such as listed below and might be "bumped" after 4 mo. for newer ads:*

NEW ADS.

(10-26) 6ea **Zenith laptops** 286 disk $100ea, portable for pkt/RTTY, need 12vdc or 16.5vdc@2a wall plug: Larry W7HKI **439-5855** Ocsd.

(10-03) PK232MBX $150; **Hickok** Tube Tester $75; **Astron** 12v 6a Pwr Sup $30; Ham **Keyer** $40; 2 low pass **filters** $20ea; **Fax** Modem $100; **Leica** 35mm, 50mm, 135mm lenses (Antique) $200; **Larsen** 2m-70cm mag mount ant $30; 5/8th **2m ant** $10: Gordon W6MYV **967-7847** Ocsd.

Ads sent to our club box 73 in Vista can only be given to your editor twice a month so send them to 30311 Cir. R Ln, Vlly Ctr, CA 92082 before 20th of month or W9FQN@amsat.org.

(9-16) HO Scale Train layout-64sq ft. Still set up to see. Asking $550. Will trade for electronic equipment and will help take down and move at no extra cost. Mark, KC6CZO, **739-1533**, hisword@ix.netcom.com.

Please let me know if you buy or sell so I can take out the ad -Ed.)

(8-22)Triax H354 heavy duty tower, make offer: Ted W6WXS **818-363-6633** Granada Hills, SFVlly.

(7-17)VCR, Sanyo late model with Beta II & III 6hr modes, 30 extra tapes, Timer record & remote control $75.00 OBO: Larry W7HKI **439-5855** Ocsd.

(7-16)AOR AR-1000 (HT type) scanning monitor 8MHz-1.36GHz + cell, 1000 channels $250: Bill KD6BFR **480-6805** Escondido.

(6-1)ICOM FT-51R 2m/440 dual band HT w/remote hand mic. $400: Chuck KE6TXQ Pager **1-800-804-9168** Carlsbad.

Commercial Ads in big boxes: *$2/col. inch/mo. We will "squash" your copy to the number of inches bought. **Ads billed Feb., May, Aug., & Nov.***

(04-24)Yaesu FT-5100 2m/440 xcvr like new w/decode & mobile quick release bracket $550: Dinh KE6KDP **941-1529**.

WANTED: *A few good men/women*

(10-25) Need 16.5vdc @2A power supplies for **Zenith Laptop** computer(s), also 12vdc @2A: Larry W7HKI **439-5855** Ocsd.

(9-26) stepdown/up transformer 220v to 110vac for microscope at 400-500 watts: Nash W6HCD **940-1028** Fallbrook.

(8-3) need information of the modification of a communications monitor, **CE-3,** for "opening" up the 70cm band: Mike AB6QT **742-1573** PMt.

(7-18) Still looking for **Kenwood TH-28A** HT manual ..lost phone # of previous contact: Pat KC5NJU **746-1644** Escondido.

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PARC Identification(s)

Caps, $5.00; **Old badges** *(circular ones)*, $1.00; and **New Badges** *(blue rectangles)*, $7.00 *(this will be mailed to your home).*

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PARC VE Program

Rusty Massie, AA6OM 747.5872
1249 Nordahl Rd., Escondido, CA 92026

*SANDARC VE testing locations are now charging **$3/session.** You must have exact change! PARC testing is the **2nd Saturday** of each month at the Carlsbad Safety Center in Carlsbad at **9:30am.** Contact me seven days before the exam date so that I can have the proper test(s) available for you. Passed elements are noted ( ).*

Aug.10 - **John Greenstone** (2, 3A); **John Melville** (2, 3A); **KE6EUE** (3B); **KD6YF** (4B); **KD6YF** (4B); **K6ZST** (4A); **KE6YAK** (3B).

Sept.14 - **KC6YOX** (3B); **KF6AVG** (3B).

Oct.28 - **KD6HYS** (3B, 1A, Tech+); **KE6BSV** (3B); **KF6EWV** (3B); **KE6LBY** (3B).

Nov.9 - Jack Dea (2, 3A, Tech); Dick Hobson (2, 3A. Tech); KF6GXF (3B, 4A, 4B); KF6ELN (3B); Alan Swinney (2, 3A, 1A, Tech+).

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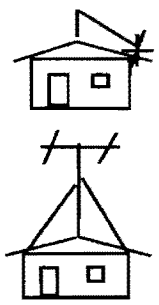

If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate!
Radio systems installation, repair and removal, and interference resolution.

Edward Ross, N6GZI
(619)542-1405

Antenna Specialties

PALOMAR ENGINEERS

Box 462222, Escondido, CA 92046
619-747-3343, 75353.2175@compuserv.com

TOROID CORES

Palomar stocks a wide variety of cores and beads. Our RFI Tip Sheet is free on request.
Our RFI kit keeps RF out of your telephones, TVs, stereo, etc. **Model RFI-3 $18 + tax + $6 to ship.**

RF CURRENT METER

Measure the current in your radials, see which ones work and which ones are broken. Check for current on the coax shield, etc. Useful from 1ma to 5amp I-30 MHz.
Model PCM-1 Clamp-on Current Meter $125 + tax + 6 S&H.

R-X NOISE BRIDGE

Learn truth about your antenna, & resonant frequency. Adjust it to your operating frequency quickly and easily.
Price $79.95 + tax + $6 S&H.

TUNER-TUNER

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$$$ SAVE BIG ON '97 CALLBOOKS $$$

'97 Callbooks (ret.$39.95)	$29.95
'97 Callbook CDROM	39.95
QRZ! Ham Radio CDROM (vol.8)	17.95
'97 ARRL Handbook (ret. $38)	36.95
'96 ARRL Handbook (ret. $38)	26.95
'96 Callbook (N.A. or Int.)	17.95
'96 Callbook CDROM (Summer'96)..	23.95
NEW: Satellite Anthology (ARRL)	10.95
NEW: QRP Power (ARRL)	10.95

(above available at the December meeting)
Call Duane AA6EE 789-3674

Ham Count

A quick check of the northern SDCo town areas yielded the following number of hams living in each area - - **Escondido(494),** Oceanside(349), Vista(314), Poway(251), La Jolla(218), Carlsbad(212), San Marcos(137), Fallbrook(170), Encinitas(131), Valley Center(53), Cardiff(44), Rancho Sante Fe(42), & Bonsall(6).

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Palomar Mountain ??

Mike & Barbara Doyle (*history*)
AB6QT/KD6ECD (**AB6QT@amsat.org**)

For many years we have heard the mountain called several different names. Some people call it Palomar Mountain, others call it Mt. Palomar. Sometimes it's referred to as Palomar. Which is the correct name? There seemed to be a mystery here. We decided to try and solve it. After discovering some interesting facts, we thought we'd share it with everyone.

Joseph Smith was the first white man to settle on the mountain. he was born in M. Carolina in 1820 and came to Old Town in the early 1850's. Standing 6' 4" tall, the Indians called him "Jose Largo", "long Joe Smith". Moving to the mountain in 1842, Joseph Smith was known as a good business man, fine mechanic and was handy with tools.

He built his home on the north side of the mountain, now known as Dyche Valley. In 1868, on one of his trips to the store (down at the Warner Ranch) for supplies, he met a homeless ...young man. He befriended this young man and brought him home. Several months later, this young man murdered Joseph Smith in search of Smith's money. It was a well stated rumor that Smith had $500.00 hidden somewhere in his milk house.

Upon the news of his death, approximately seventy-five men collected and formed a vigilante court and held a trial. The young man made a full confession and was condemned to death. About twenty-five men (including Nate Harrison and George Dyche) got together to pull the rope for the hanging.

This and That

For over forty years, the mountain was known as "Smith Mountain". Smith having no heirs, his property reverted to the Public Administrator, and was eventually sold to George Dyche, hence, the area became known as Dyche Valley.

Previous to the Name "Smith Mountain", the area was known by the San Luiseno Indians as PA' OUW, which translates to mean, "the mountain". The original Spanish name for the mountain was "Palomar", meaning "dovecote", which according to the American Heritage Dictionary of the English Language means "a roost for domesticated pigeons".

Looking through some old Palomar Observatory files, it states that on December 4, 1901, the division of Geographic Names in Washington, D.C. (in response to a petition from local citizens for a change in name of Smith Mountain) had officially adopted the name of Palomar, the old Spanish name, as mentioned above.

According to the U.S. Dept. of Agriculture Forest Survey map (Cleveland Nat'l Forest), the town at the junction of S6 and S7 is called Palomar Mountain. This map also names the entire area as Palomar Mountain. This was also the same with the Boucher Hill Quadrangle Topographic map, put out by the U.S. Dept. of the Interior.

Still, there are several reputable periodicals, encyclopedias and Astronomy textbooks that refer to the area as Mt. Palomar. We do know that the true name for the observatory is the Palomar Mountain Observatory, not Mt. Palomar Observatory. We also know that the long-time residents get deeply offended when they hear the mountain being called "Mt. Palomar".

Given he information that we have collected here, it is our opinion that the true name is ***Palomar Mountain***.

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OSCAR RIVERA

Oscar Rivera Hernandez, former head of the Tijuana SCT office (similar to an FCC field office), has retired from public service and is now working in the private sector. Oscar has served as Zone Coordinator for the past 10 years in the Mixed Commission and has been instrumental in resolving cross-border radio interference problems.

This distinguished gentleman is now working for a company that plans to bring PCS communications to all of Baja California, and we wish him every success in this exciting new venture.

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PARC TOP 20

PARC's Top 20 DXCC

11/24/96 **W6NWG@amsat.org**

DXCC worked(confirmed), states(wrk-conf)

1.	WA6YOO	324-324-50-50 Mixed
2.	WA6YOO	319-319-50-50 Phone
3.	AC6V	316-307-50-50 Mix 8w
4.	AC6V	311-303-50-50 Phone
5.	WA6YOO	274-270-??-?? CW
6.	WA6YHB	209-201-50-50 CW
7.	WB6NBU	205-180-50-50
8.	AA6EE	200-196-50-50
9.	WB6NBU	160-118-?-? Isoloop
10	AC6V	152-149-50-50 CW
11.	KI6JM	193-136-??-??
12.	WA6YOO	162-162-??-?? RTTY
13.	N6SMW	150-109-??-?? Mixed
14.	N6ELP	138-105-??-?? RTTY
15	KC6QXU	095-086-50-50 10m
16	W6EYP	037-013-50-2410-20m
17.	AA6TR	001-???-??-?? 100mw
20.	urcall?	___-___-__-__

Please send in your updated WORKED-CONFIRMED & STATES info to UR Editor. Pse break down by Ph/CW/Mixed if possible.

WA6YOO also holds 5 Band DXCC, Certificate Number 3,767 with 17 Meter endorsement. The ARRL DXCC Honor Roll Plaque now hangs on Harry's wall!

WORKED ALL CALIFORNIA COUNTIES

1.	WA6HYB	58-58 QRO
2.	WA6HYB	58-58 QRP 1watt
10.	_____	__-__ urcall?

W.A.C.C. rules and information can be obtained from K.O. Anderson, K6PU, POBox 853, Pine Grove, CA 95665 or contact **Dan-WA6HYB**. Dan

suggested that with the sunspot numbers dropping that this might be an award that some of our members might want to work towards. It also is a good way to see where towns and counties are located in our great state of California.

WA6HLB **WAC** 1 watt
WA6HLB **WAC** 5 watts

WA6HLB's QRP contacts were made with a xcvr kit, rock bound on 29.95!

+ + + + +

EXPERTS

Experts

(Loco and OtherWise)

(11-16-96) **W6NWG@amsat.org**

One of the advantages of a large club is that we have a great number of experts in many areas.

The following club members have considerable knowledge in the areas listed. If you have questions, please feel free to contact them through a club roster:

Accounting/bookkeeping $KM6WG
AMTOR/RTTY HF WA6YOO
Antennas KC6UQH WB9COY KB6MCU $N6GZI
Antennas BoatElect KC6UQH
ARES KE6WOE K7DCG WA6YOO KC6YSO
ARRL WA6YOO ???
ATV KB6MCU KD6TLF KC6UQH WB9COY N6ALA
Autopatches WB6FMT W9FQN
Aviation History AC6V
Badges, PARC W6OLQ KC6WAN WA6YOO
Beams HF N6KI KB6MCU
Bicycling KQ6HE AA6TR
Bilingual Ed. KA6FPS
Boating Sailing W6QCA AA6TR W6EYP
Cars(old) W6QCA AC6V
China WA6YOO N6TCB
Coast Guard Aux N6TEP
Computers C-64 WD6FWE
Computers IBM WB9RKN W6QCA N6ZUC KD6AKT
Computers MAC AC6V KB6NMK
Computer TRS-80 Mod 3/4 W9FQN
Dancing AC6V KM6MW
DeskTopPub KE6JOJ KC6CZO KB6NMK W9FQN
Direction Finding KB6NMK W9FQN N6UWW
DXing CW KA5Q AA6TR WA6YOO
DXing SSB WA6YOO KA5Q N6KI AC6V
Earthquakes AC6OA W9FQN
EmergencyVolAirCorps KH6TL
Fishing $KE6EDC(KM6WF)
Fire Patrols(RedFlag) W6HCD
Flying Smaritans W6HCD
FM Deviation Cks WB6FMT AB6QT KC6UQH KA6NZL AB6LY
German N6TEP KJ6ZD WBØYCQ
GPS ??
Graphics $KB6NMK
Grounding W9FQN
Heathkits WB6IQS
Hiking KE6ZLY N6NPN W6VR
Horses KF6QH
Interference N6GZI KB6MCU
Internet AC6V KC6WOE
Korea WA6YOO W9FQN N6IE
Lighting $AA6TR
Lightning W9FQN
Marine Electronics $KC6UQH
MARS WA6YOO KM6PN KO6BU
Membership PARC KC6WAN W9FQN KB6NMK
Mexican License N6KI W9FQN N6UWW WB6PKK
Mexican Road Races WB6PKK N6UWW
Mexico Baja WB6PKK KM6WF W6HCD
Mexico Mainland W9FQN KA6FPS
Microwave N6IZW KC6UQH
Mobile noise Filters KI6RF KC6UQH
Nets PARC W9FQN
Nets Traffic N6TEP W9FQN
Pacific Crest Trail KF6QH W9FQN
Packet BBS KJ6ZD
Packet KB5MU N6ZUC AC6V KD6AKT *(Tue 9pm Pkt Net .73)*
Ping-pong W6OLQ W9FQN KA6FPS
Planes Gliders KC6YOX
Planes History AC6V
Planes Model WB6FMT N6UUW
Repeaters AB6QT WB6IQS KC6UQH KA6NZL WB6MCU KC6YOX
Tennis KC6MQC NU6L KA6FPS W9FQN KM6PN
Towers W9FQN N6KI N6GZI
VE Testing AA6OM WA6YOO
WWW pages KE6WOE AC6V

($ = they sell their services)

If anyone would like to be added or deleted from this list or if you have suggestions of others that might be added, please contact your editor.

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This and That

Harry Hodges, WA6YOO, has completed the **Honor Roll** requirements and has the plaque on the wall. To the non-Dxer, it may seem routine, but typically it can take 2 sunspot cycles to complete, and very difficult to achieve in one cycle. (de **AC6V**)

Please visit my very first attempt at a **home page**. The URL is: http://www.users.cts.com/sd/g/golson/ (**Gayle Olson, KM6WF** :-})

A report on **Lorraine's (AC6XK)** recent injury..... The trails are a slick sheet of ice and I slipped coming down Wellman's trail. I fell and smashed my finger. I was sure it was broken but it is just badly sprained. I'm wearing this stiff splint which makes it very hard to type!! It is still swollen and very purple! I'm thankful that it is my left and not my right!!

Well, it will be good for pointing at misbehaving children at school. *(Lorraine can now hit 146.730 with her new beam from Hemit CA.-Ed)*

SATISFIED CUSTOMER REPORT: Just picked up a tiny HT for 440 Mhz. It's a little bigger than a pack of cigarettes, runs forever on three AA

batteries, has one output power level (340 mW), an attached "swivel up" antenna, 20 memory channels, built-in PL encode and good audio on send and receive. A VERY simple, clean radio. Model: **Alinco DJ-S41,** List Price: $139, Available at HRO. (de **W6VR**)

Radar interference to the 950 Mhz aural STL band SHOULD now be a thing of the past due to military hardware changes. (Thanks, Jack Daniels, U.S. Navy.)

Volunteers are needed in the San Diego area to help install **internet computers** at schools. Includes running telephone wires and doing all the things necessary to get kids on line.

This worthwhile project is being coordinated by Mr. Hiep (pronounced "Hep") Le, an engineer with the San Diego FCC Field Office. Hiep would like to receive calls at his pager: (619) **904-0579**. If you are a ham radio operator, get on the air and spread the word. **(unknown)**

Some **vanity call sign** holders have become interested in the **genealogy** of their new call signs and want to know who the former holders were. ARRL headquarters does not have the resources to track down this information, but those interested might try the FCC's official duplicating contractor, International Transcription Service (ITS). Among other things, ITS can **research amateur call signs** to determine when they were first issued and to whom. The cost of this service varies depending on the volume and research time involved. Research time is $15 per hour, billed in quarter-hour increments. Requests can take up to one business week. Additional charges apply for expedited service. ITS is located in the FCC's Gettysburg Office.

Why walk when you can fly?

Write ITS Inc., 1270 Fairfield Rd, Suite 24, Gettysburg, PA 17325-7245; tel 717-337-1433; fax 717-337-3409.

(Tom Hogerty, KC1J)

A quick check of the northern SDCo town areas yielded the following number of hams living in each area - **Escondido(494),** Oceanside(349), Vista(314), Poway(251), La Jolla(218), Carlsbad(212), San Marcos(137), Fallbrook(170), Encinitas(131), Valley Center(53), Cardiff(44), Rancho Sante Fe(42), & Bonsall(6).

AC6V DX Reference Page at: http://www.netcom.com/~ac6v/index.html (de **AC6V**)

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Contests Update

ARRL 160m	**Dec**. 6-8
ARRL 10m	Dec. 14-15
Midwinter CW	Jan. 11th
No.Amer. QSO CW	**Jan**. 11-12
ARRL VHF Sweep S.	Jan. 18-20
YL-OM Phone	**Feb**.8-10
N.Amer. CW Sprint	Feb.9th
ARRL Inter.DX CW	Feb. 15-16
CQ 160m phone.....	Feb. 21-23
YL-OM	Feb. 22-24
RSGB 7 Mhz CW	Feb. 22-23

Those wishing to use the club trailer and equipment should get their reservations in early for these events.

Descriptions of these events can be obtained from **QST** and **CW** magazines at HRO or contact Harry-WA6YOO for additional information.

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New Calls

Your editor would like to have a list of the new vanity call changes for publication in the December SCOPE so please also get the changes to me: 8pm evening traffic net, W9FQN@ PALBBS, W9FQN@amsat.org, or at 749-0276.

Club members with call changes should also get them into our Membership chairman, Ralph-**KC6WAN**, if you have not already done so. Those sent to W9FQN will be forwarded to Ralph.

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Bubble Jet Ink

Stan Rohrer W9FQN@amsat.org

Ink cartridges for most bubble jet printers cost an arm and a leg. One solution (pun) to the problem is to drill a hole in the top of the used cartridge and fill it with premium InkJet ink. In my case (Cannon BJC-610) I can fill the cartridge while it still is in the printer.

Try MEI/Micro at **1-800-634-3478** and PC Zone **1-800-258-2088**.

I get 6 refills of a BC-02 cartridge for $11 which normally would cost over $120 for 6 new cartridges.

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73 Magazine

The December 96 issue of 73 magazine has some great articles: APRS uses and great ideas; 80m local antenna; 6m antenna; circulators and their operation; information highway; audio filter alignment generator; art of sending CW; CW enhancer; 2m to 6m transverter kit for $100; and HF radio universal interface kit $30.

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Fire Remembered

Stan Rohrer W9FQN@amsat.org

Your editor came to California in September of 1970 when a fire swept over 100's of acres to the east of our present house (PARC FD Site) finally over running our property and the FD site to the west of the house (no 10 million gallon tank then).

Barbara, **KA6FPS**, left with the non-replaceables (Collins KWM-2 transceiver, etc) and I stayed with a hippy fire crew and a 6.5' fire fighter giant from Yucipa. We laid on our stomachs to the east of the house with two fire hoses and my garden hose while we watched the fire break up into two fingers across an old fire trail which passed through our house site. Back fires failed to ignite the brush.

Burning embers pelted us from from several hundred yards away like tracer bullets fired from a gun as the flames raced towards us. My 26" sailboat caught fire. We could look up at a 45% angle and see the flames right in front of us and the fire hoses only had 60 seconds of water!

The first wave passed to the north of the house about 30' away and seconds later it hit us again passing to the south of the house. We were all flat on our bellies and at the last second the chief said NOW and a spray went up ...the fire passed us so quickly that we were not sure what had happened. But we were still there and so was the house.

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Technical and Operational Things: Repeaters, Autopatches, News, etc.

Autopatch wording

Stan Rohrer W9FQN@amsat.org

Autopatch users are reminded that you are to give your FCC callsign **twice** during the autopatch.

The first time is immediately AFTER you issue the 3-digit access code. The second time is immediately before you issue the "#" sign.

HOW YOU SAY / DO IT

1. **Push** the PTT button, dial 3-digit code.
2. **Say, "URCALL ACCESS PATCH."**
3. **Release** the PTT, hear the dial tone.
4. **Push** PTT,dial UR 7-digit phone number.
5. **Release** PTT, hear the phone ring.
6. Hold your short conversation (**<60sec**).
7. **Press PTT and say "URCALL CLEAR PATCH, then press "#."**

If mobile, say "URCALL MOBILE."

URCALL = your own FCC call letters.

If you do not give your callsign at the proper locations during the autopatch, it is assumed by a control operator that you are not a club member which could result in the autopatch being terminated or future access denied.

146.73- Calling repeater, mobiles, and nets

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Project Update

Palomar ARC W6NWG@amsat.org

The following is a status report on major to semi-major club projects:

52.680 - crystals authorized for replacement emergency repeater which still needs to be located.

146.730 - new repeater installed, old one being refurbished.

147.130 - new repeater installed in October. The old one will be refurbished and crystaled up so that it will work on 147.075 and 147.130.

147.075+ Base stations discussions and rag-chewing

449.425 - parts being collected for construction of new repeater.

Alarm System - phase two needs to be completed.

ARESDATA - have the packet program, computer, and transceiver. We need to put it together.

147.13+ Mobiles and autopatch

Auto Dialing - electronics constructed but not mated together. Program needs to be written allowing automatic selection of the proper phone prefix.

Battery Setup - the 24 new cells awaiting a building/shed at the repeater site. New chargers being prepared for use at the site.

449.425 Autopatches and rag-chewing

Communications Trailer - front table needs to be finished, small table/shelf constructed, and carpet on the floor. Then the two HF ICOM 735's installed with the VHF transceivers. The trailer would be available for weekend use near the FD site.

Earthquake Detector - basic electronics completed but problems with the interface between the unit and the 146.730 repeater.

Lightning Protection - grounding system almost completed and starting on the AC protectors.

Repeaters

Use as you see fit. These are only recommendations.

Mac's Shack (camper) - VHF/UHF transceivers installed, packet installed, antennas installed, and small wood working projects completed.

New Building - investigation continues since a new building cost of $20-30k is high and is not fire proof. Investigating metal buildings and underground vaults.

Packet Repeater Site Monitor - unit constructed but not mated with a computer system.

Packet Node - chips obtained, being programmed with installation after the new year in 145.050.

Repeaters

use them or loose them!

Packet - replacement system for 145.05 or 146.73 started. Crystals, receiver, and transmitter obtained. Now collecting TNC's.

PALBBS - looking for another packet system operator in the N.Co. area.

Repeater Site Video - Video camera project being looked at and parts collected to survey the repeater site when alarm is sounded and for winter tower inspection..

Proposed projects.

Computer ID of Interference - construction of $60 unit to get "finger prints" of offending transmitters.

Remote HF Station - a system has been offered completely set up to the club but we need to have someone or group to put together an antenna system and work out a few procedural problems.

Voice announcements - PARC net announcements played automatically when needed by net controls.

Weather collection - collection of wind, rain, humidity, and temperature values.

If you can help with any of these projects, please contact a board member and volunteer. Suggestions of other projects are welcome.

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Autopatch Update

Jerry Houser WB6FMT@amsat.org

The patches appear to be working satisfactorily at present. On the next trip to the mountain we will be adjusting all levels so that each repeater sees the same audio levels on transmit and on receive.

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Work Parties

Stan Rohrer W9FQN@amsat.org

There will be no more scheduled work parties at the repeater site until next Spring except for emergency visits.

(10-26) A quick Saturday morning trip was made to the repeater site only to find that there was snow on the ground. Art-**KC6UQH** and Joe, **KE4ZJH**, who brought up the rear of the motorcade, had to suffer several snowballs being fired by Bob-**KA6NZL** and Stan-**W9FQN** as they arrived.

Joe took video of the site for a future video production, and Art and Bob replaced the old **KA6UA** 2m repeater on 147.130 with the new repeater built by Bob. The change was successfully completed and the new repeater was tied into the 12vdc emergency battery system which leaves only the 147.075 repeater going off the air when we loose AC power.

Stan narrated the video for xxxx as they "cruised" the entire site and Stan also replaced the central autopatch board which had failed earlier in the week. Jerry-**WB6FMT** diagnosed the problem from Vista and provided a replacement board for substitution. All indications are that the "fix" is working.

(10-22) On Tuesday morning a workparty met at **KI6JM's** (*SK*) QTH and removed all antennas: 2m beam, 3-band HF beam, and 2m J-pole along with all of the radio equipment which was donated to the club by Jack before he died.

(11-??-96) a cold day on the mountain with snow on the ground. Bob-**KA6NZL**, Art-**KC6UQH**, and Stan-**W9FQN** took the new 147.130 repeater which Bob had finished building to the site to replace the old 147.130 repeater put together by Eric-**KA6UAI** and John-**WA6JZC**.

(11-17-96) what started out as a cool day ended up as another great day on the mountain. A far cry from Bob and Stan throwing snowballs at Art's truck as he entered the site several weeks earlier.

Dennis-**KE6MQC** and Mike-**KF6FSY** checked the tension in the nine guy cables for the last time and then helped with painting. Mike also brought up a box of "goodies" for the club to use at the site: weed killer, contact cleaner, paint, tape measures, etc.

David-**KC6YSO** and Ted-**KF6BFI** checked the specific gravity of the 14 cells in our battery system along with the voltage of each cell. Everything seemed normal and they also ended up painting. David also found out that the new 6m repeater draws 0.6amp on receive and 4.3amp on transmit.

At last we have finished painting everything a battleship gray getting rid of the hideous green walls. Stan-**W9FQN** spend most of his time painting and assigning tasks.

Bob-**KA6NZL** and Art-**KC6UQH** worked on the **147.075** repeater receive system and replaced several modules and apparently have increased the sensitivity of the 075 repeater greatly.

Their next task was investigating the desense of the **146.700** packet repeater. Yes, it does have desense from itself and from the 146.730 repeater. This problem will have to be solved next spring although most people are finding the repeater quite satisfactory the way it is.

Glen-**KE6ZLY** visited us later in the day and helped our moral with a few choice stories.

Those attending work parties at the site are given two (2) participation points besides the opportunity to contribute to the repeater site with labor.

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Packet Net ? ? ? ?

We are still looking for net controls if we are to continue the net! Contact W9FQN@PALBBS or @amsat.org.

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Packet News

Ted Stork, KD6AKT@PALBBS

I will have my portable packet station at the December meeting for those interested in Packet. It will be set up in the **RACES/ARES** emergency room across from the meeting hall. If you have questions, please feel free to stop in for "free" advice.

The Tuesday evening Packet Voice Net at 9pm ..... see you there!

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Have Modem? Will travel!

Stan Rohrer **W9FQN@amsat.org**

If you have a modem in your computer, then you can have free e-mail! **JUNO** is a new free -mail connection to the world.

They will send you a disk with the program and instructions. All you need is a computer, modem, and a telephone connection.

They are able to provide this free service because they attach advertisements when you connect to their system but the advertisements are easily deleted and you are left with free e-mail.

Call **1-800-654-JUNO** for your **FREE** disk copy of their program.

After you get the program up and running, send an e-mail to Paul, KB5MU, at the amsat organization and get your **FREE** amateur amsat.org alias address so that you can be like the big boys and have -

(yourcall)@amsat.org

To register for your amsat.org address, send an e-mail to -

listserv@amsat.org

In the body of the text include -

(youramateurcall) (your name) (Present e-mail address) (JUNO?)
I would like to have -
(yourcall)@amsat.org
Thanks, Paul

Paul should have your alias up and running by the weekend ..if he isn't flooded by too many requests. Paul is a PARC member and quite active in the AMSAT organization. He does this during his free time. E-mail messages go to the giant computer in SD, the alias is stripped off, and your correct address is substituted. Everyone in your family can have their own callsign address which uses the same e-mail address!

Do not send "attachments" through your alias.

And that is all there is to it. Even if you don't have a **juno.com** address, every ham should register and pick up his/her (yourcall)@amsat.org since with so many addresses out there it is hard to remember them all.

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Gross Polluters

When you go in to get a smog check you are liable to get a shock. You ham mobile ham station must pass the new California smog rules which are designed to get old cars off the road.

No longer will you drive up to a smog shop and say, "how about a test today"and feel relaxed.

The smog machine is connected to Sacramento's giant computer which records whether you pass or fail. If you fail twice, you are labeled a **GROSS POLLUTER** even if you fail by a few

HAM RADIO OUTLET

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MFJ
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Astron
OUTBACKER
Larsen Antenas
TEN-TEC
hy-gain
cushcraft
AEA
Tri-Ex
and
others too
numerous to
mention!

Drop in to see our display of working equipment.
Find out about Pkt location determining equipment (APRS).
Check out our complete line of magazines, ARRL books, license manuals, etc.
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Directions: On 163, take **Clairemont Mesa Blvd.** off ramp to East. Stay in right-hand lane. Turn right at stop light. As you are turning right you can see our beams in the shopping center. Travel 100 yds. on Kearny Villa Rd. and U-turn back to shopping area and **HRO** sign. Be sure to see our equipment in action on **real** antennas.

percent and your car is removed from the road until it is repaired by a state approved repair shop (*you can't do the repair yourself*). Waiting time at these shops can be 4-6 weeks so put your mobile up on blocks and find other transportation.

You might want to consider going to a repair shop for tuneup and testing before going into the official smog tester so that you don't run into any nasty surprises.

Even if you pass the test, make sure you keep the paperwork issued to you. In your editor's case, I had to produce it later when the giant computer said it had never received what it said it had received! *(certificates are no longer issued)*

To pass the test I had to drive my car in low gear for several miles at high speed around Escondido streets and make it to the test center before the motor cooled off! Not bad for 203,000 miles.

The next thing will probably have will be radiation shops where they test your mobile for the amount of radio frequency radiation coming from your antenna system ..its coming? ..and that machine will also be connected to the giant computer in Sacramento!

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Kenwood FTP

Kenwood has announced the addition of an extensive FTP site that includes many Kenwood Service Bulletins and Application Notes dating back to 1975 which should be of great help to equipment owners and service providers. Try them at -
http:www.kenwood.net or visit the site directly at ftp://ftp.kenwood.net
Amateur repairs: (310)639-5300)
Parts & Manuals: (1-800-262-1312)

See W9FQN at meetings for copies of the Sept/Oct '96 Kenwood report.

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Broadcasting, AM/FM

There is now an FCC web page dealing with low power ("micro") broadcasting. It explains what can and cannot be done under the Rules.
http://www.fcc.gov/mmb/asd/lowpwr.html

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147.075 MCW

Club members are reminded that it has been cleared to use MCW (modulated continuous wave) on the 147.075 repeater from 10pm to 11pm each evening or even later if it is a continuation of the earlier hour.

You will need to keep your transmission under 100 seconds unless you contact a control operator to remove the timeout timer.

All you need is a code oscillator and hold it near your microphone while you are sending. A special clamp can be easily rigged to hold the push to talk button closed while you send CW (MCW).

Contact PJ-**N6TIL** on one of the 147.075 code practice nets from 7-8pm Monday thru Friday for more information.

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AMATEUR RADIO EMERGENCY SERVICE REGISTRATION FORM

Name_____ **Call** _____ **HmPhone** _____

Street _____ **City** _____ **Zip** _____
Date of Birth _____ **Driver Lic#** _____ **Pager#** _____
Wrk.Phone _____ **PktMailBox Freq & Call** _____
Work hours _____
Available for
CDF Red Flag Patrol Y / N
Public Serv.Events Y / N
Primary Response ARES / RACES
Computer type _____
TNC ____ **AC Gen Watts** ___
E-mail Adr. _____
HF Equip/Ant. _____
VHF Equip/Ant. _____

Bands/Modes U Can Operate: B=Base, M=Mobile & P=Portable

	160	80	40	30	20	17	15	12	10	6	2	220	440
CW													
FM													
SSB													
Pkt													
ATV													

Signature _____ **Date** _____ *(cut/duplicate)*

PARC NETS (16/37)

All 146.730 8:00pm **Traffic Net (SDCTN)**
All 147.075 10-11pm **MCW contacts**
All 147.130 10+ pm **King Henry's Net**
(open to all facetious amateurs)
Sun.146.730 8:30am **AREmergency Service**
Sun.146.730 10:00am **Sailor's Net**
Sun 147.130 2:30pm **YL / XYL Net**
Sun.147.075 8:45pm **MARA Net**
Sun.146.730 9:00pm **This Wk in SDCo.**
Mo.147.130 6:45pm **EVAC** *(2nd/4th)*
M-F147.075 7:00pm **Morse Code Net**
Mo.146.730 7:15pm **RACES sub Net**
Mo.146.730 9:00pm **Microwave Net**
Tue.146.730 9:00pm **Voice Packet Net**
We. 146.730 9:00pm *(open)*
Thu.146.730 7:00pm **Young People's Net**
Thu.146.730 9:00pm **Ham Help Net**
(electronics, computers, antennas, license theory, etc.)
Fri. 146.730 9:00pm **Hiker's Net**

Inside: NEWS WORTHY
2-AGOGO; Board; Trea$; Swap; Stores; 3-Election KB6MCU/N2DCA; Pres. 4-Editor; Computer Dust 5-For Sale; VE 6-Ham Count; Oscar Rivera; Top 20; 7- Experts; This and That 8-Contests; New Calls; Ink; 73; 9-Patch; Projects; Work Parties 10- Packet; Modem; Juno; Polluters 11- Kenwood FTP; 147.075 MCW

Membership Application **Dues $12**
Amateur *(circle)*
Call **Family $21**
Membership: New / Renewing *(circle)*
First
Name
Last
Name
Street
Address
City
State+Zip
Home
Phone
Date Ham
License **Expires**
License **Class** N T T+ G A E (circle)
Family Membership (name + call)

Sponsor's Call
(not required)
E-mail Adr: (12-96)

___*(if checked)***LOOK AT ATTACHED AUTO-PATCH SHEET. NOT CALLING PROPERLY!**

Oct. SCOPE helpers: Harry-**WA6YOO**, Jo-**KB6NMK**, Ellen-**N6UWW**, Art & Anita-**KB6YHZ/YHY**, Nash-**W6HCD**, & Stan-**W9FQN**. Started at 12pm and ended at 2pm. ..and were those low fat cookies good! ....chocolate chip! Yum!

Mail the application (*or copy*) with your check to **PARC, P.O.Box 73, Vista, CA 92085-0073** or give to our membership chairman at meetings. We prefer checks: you have a record.

Dues are **$12/yr.** including $3 for SCOPE ($4 outside SDCO), or **$21/yr for a family** all living at the same address. Consider paying for 2-3yrs at a time to reduce the work for the membership chairman.

Name, call, and complete **address** are required. **Telephone** number is required but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet, send a **Self-Addressed-Stamped-Envelop (SASE)** with your **phone number** on the **inside flap** with your application or the receipt of the next newsletter mailed the **last week of each month** will be your only notification of membership..

Meetings 1st Wednesday of each month at 7:30pm.

OPEN REPEATERS / CLOSED AUTOPATCHES, PALOMAR Mt. REPEATERS (W6NWG)

PARC Trustee of W6NWG: **AB6QT**
***52.680**- W6NWG, -0.5 MHz
Autopatches(4): **146.730-**, ***147.075+**
***147.130+**, ***449.425-**
PKT: **145.050s** (PALMAR-1) Open
(linked to PARC 9600 METROLINK)
146.700-(Duplex Pkt) PALBBS/EMG use
145.050/146.7- (W6NWG/PALBBS)
ATV:**915** wbfm, **919**AM, **2441.25** wbfm
Intercom: **144.390** PL 79.7 nbfm
OUT: **1241.25** MHz AM
OTHER: ***224.38**- & ***224.94**- KK6KD
***224.90**- WD6HFD (220Club)
448.00- WB6FMT (123.0PL)
***146.175**+ WA6IPD, Falbrk
*** = PL of 107.2 Hz**
http://www.**electriciti.com/parc**

POSTMASTER:
Return to—> SCOPE
P.O.B.73, Vista, CA
92085-0073

2nd Class Postage Paid
Vista, CA 92085-9998

Time Dated Material

SCOPE, US PO **#076530** Pub. monthly by PARC Inc. Membership $12/yr. including $3 for SCOPE in SDCo (out $4).

Lable

Renew Now! Please consider renewing for several years.